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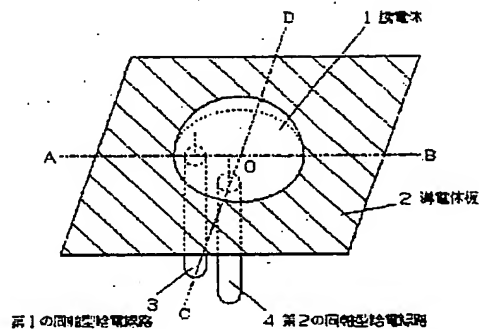
(54) DIELECTRIC RESONATOR ANTENNA

(57) Abstract:

PURPOSE: To allow the dielectric resonator antenna configured small to send/ receive a circularly polarized wave.

CONSTITUTION: A conductor plate 2 is adhered to a bottom side of a semispherical dielectric body 1 in which a change in a dielectric constant is a maximum and a minimum respectively in directions AB and CD orthogonal to each other, power is fed in phase through a 1st coaxial feeder and a 2nd coaxial feeder of the same length. Since the resonance frequency of the electric field differs in the directions AB, CD in the inside of the dielectric body 1, the electric field emitted from the antenna in the direction AB differs in phase from that in the direction CD by 90° and the combined electric field of both the electric fields causes a circularly polarized wave.

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